



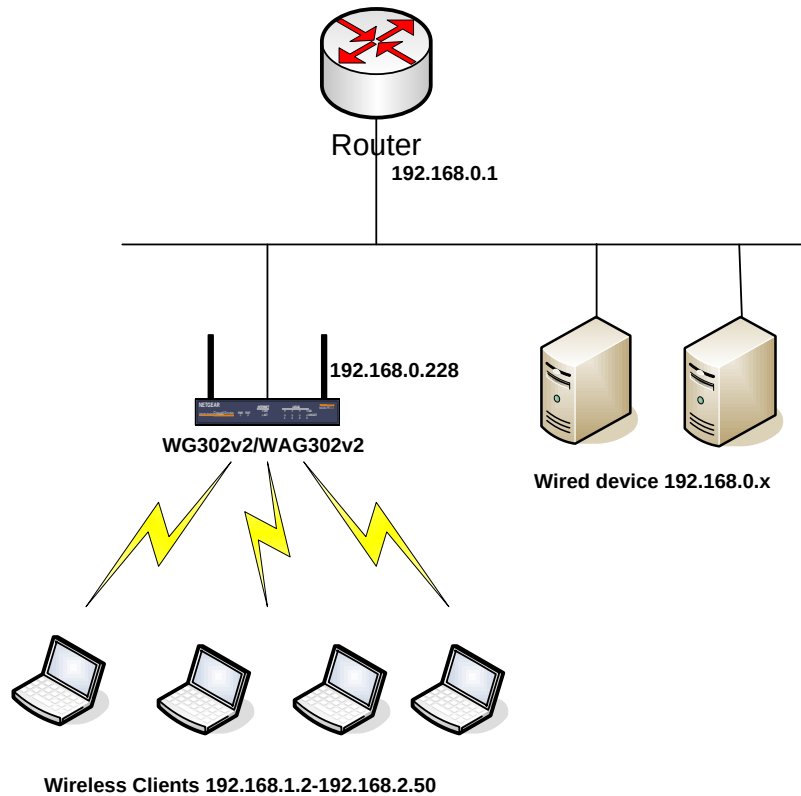
## WG302v2, WAG302v2 – DHCP: Use and Configuration

The WG302v2/WAG302v2 can act as a DHCP server for wireless client. The WG302v2/WAG302v2 provides the pre-configured TCP/IP configuration for wireless clients connected to the access point.

The WG302v2/WAG302v2 DHCP server only assigns network information to clients that connect to the access point through security profiles that are on the same VLAN as security profile 1. VLAN 1 is the default VLAN for all security profiles.

**Enabling the DHCP server on the WG302v2/WAG302v2 causes Network Address Translation (NAT) to be enabled on the access point** - The WG302v2/WAG302v2 in this case acts similar to a NAT router for the wireless clients who receive their network information from the access point. All network traffics from the wireless client designated to the wired network are NAT-ed to the access point's LAN IP address.

As a result, the DHCP network (wireless network) configured in the WG302v2/WAG302v2 DHCP settings must be in a different subnet than the wired network.



In the above example, the wired network where the router and the access point resided is 192.168.0.0/24. When enabling the DHCP server on the WG302v2/WAG302v2, the DHCP network must be in a different subnet than 192.168.0.0/24. In our example, we use 192.168.1.0/24.

To enable DHCP server on the WG302v2/WAG302v2, go to Advanced->IP Settings in the access point's management interface. Select the radio button to enable DHCP server. Enter the starting and ending IP Address of the DHCP pool, subnet mask, gateway IP address, primary and secondary DNS server addresses, primary and secondary WINS server addresses and lease time. Click Apply.

## Advanced IP Settings for Wireless Clients

|                       |                                         |                               |     |       |   |         |
|-----------------------|-----------------------------------------|-------------------------------|-----|-------|---|---------|
| <b>DHCP Server</b>    | <input checked="" type="radio"/> Enable | <input type="radio"/> Disable |     |       |   |         |
| Starting IP Address   | 192                                     | 168                           | 1   | 2     |   |         |
| Ending IP Address     | 192                                     | 168                           | 1   | 50    |   |         |
| Subnet Mask           | 255                                     | 255                           | 255 | 0     |   |         |
| Gateway IP Address    | 192                                     | 168                           | 1   | 1     |   |         |
| Primary DNS Server    | 4                                       | 2                             | 2   | 2     |   |         |
| Secondary DNS Server  | 4                                       | 2                             | 2   | 3     |   |         |
| Primary WINS Server   | 0                                       | 0                             | 0   | 0     |   |         |
| Secondary WINS Server | 0                                       | 0                             | 0   | 0     |   |         |
| Lease                 | 1                                       | days                          | 0   | hours | 0 | minutes |

Apply Cancel

Wireless clients connect to the WG302v2/WAG302v2 will receive one of the addresses from the DHCP pool. However, DNS Server address assigned to the wireless client will always be the same address as the default gateway address. It was because the WG302v2/WAG302v2 uses DNS proxying. The wireless client's DNS requests are sent to the access point then proxy to the designated DNS Server specified in the DHCP setting.

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Command Prompt

Ethernet adapter Wireless Network Connection 2:

    Connection-specific DNS Suffix . . . : 
    Description . . . . . : NETGEAR 108 Mbps Wireless PC Card WG511T
    Physical Address. . . . . : 00-09-5B-98-D1-7A
    Dhcp Enabled. . . . . : Yes
    Autoconfiguration Enabled . . . . : Yes
    IP Address. . . . . : 192.168.1.23
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.1.1
    DHCP Server . . . . . : 192.168.1.1
    DNS Servers . . . . . : 192.168.1.1
    Lease Obtained. . . . . : Friday, September 22, 2006 3:52:50 PM
    Lease Expires . . . . . : Saturday, September 23, 2006 3:52:50 PM

T:\>
```

This is specific for v2 of WG302 and WAG302. WG302v1 and WAG302v1 DHCP server works differently. Refer to the reference manuals of WG302v1 and WAG302v1 on how to setup DHCP server on those access points.